



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<b>(21) International Application Number:</b> PCT/GB99/02452 <b>(22) International Filing Date:</b> 27 July 1999 (27.07.99)  <b>(30) Priority Data:</b> 9816336.3      27 July 1998 (27.07.98)      GB 60/125,329      19 March 1999 (19.03.99)      US  <b>(71) Applicant (for all designated States except US):</b> MICROBIAL TECHNIQS LIMITED [GB/GB]; 20 Trumpington Street, Cambridge CB2 1QA (GB).  <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> LE PAGE, Richard, William, Falla [GB/GB]; University of Cambridge, Dept. of Pathology, Tennis Court Road, Cambridge CB2 1QP (GB). WELLS, Jeremy, Mark [GB/GB]; Actinova Ltd., 12 Pembroke Avenue, Denny End Industrial Centre, Waterbeech, Cambridge CB5 9PB (GB). HANNIFFY, Sean, Bosco [IE/GB]; University of Cambridge, Dept. of Pathology, Tennis Court Road, Cambridge CB2 1QP (GB). HANSBRO, Philip, Michael [GB/GB]; University of Cambridge, Dept. of Pathology, Tennis Court Road, Cambridge CB2 1QP (GB).		<b>(74) Agents:</b> CHAPMAN, Paul, William et al.; Kilburn & Strode, 20 Red Lion Street, London WC1R 4PJ (GB).  <b>(81) Designated States:</b> CN, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  <b>Published</b> <i>Without international search report and to be republished upon receipt of that report.</i>
<b>(54) Title:</b> NUCLEIC ACIDS AND PROTEINS FROM STREPTOCOCCUS PNEUMONIAE		
<b>(57) Abstract</b>		
Novel proteins from <i>Streptococcus pneumoniae</i> are described, together with nucleic acid sequences encoding them. Their use in vaccines and in screening methods is also described.		